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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/627,316	07/25/2003	Timothy Neill	200208568-1	1916

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FORT COLLINS, CO 80527-2400

EXAMINER

TRAN, CHUC

ART UNIT	PAPER NUMBER
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2821

MAIL DATE	DELIVERY MODE
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07/30/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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Office Action Summary

Application No.

10/627,316

Applicant(s)

NEILL ET AL.

Examiner

Chuc D. Tran

Art Unit

2821

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 24 April 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-19, 27-29, 31 and 32 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) 27-29, 31-32 is/are allowed.
- 6) ☒ Claim(s) 1-3, 5, 7-9, 12 and 13 is/are rejected.
- 7) ☒ Claim(s) 4, 6, 10-11, 14-19, 28-29, 31 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
 Paper No(s)/Mail Date _____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____.

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-19, 27-29 and 31-32 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-3, 5, 7-9, 12-13, 27 and 32 are rejected under 35 U.S.C. 102(b) as being anticipated by Yoshihara et al (USP. 5,898,909).

Regarding claim 1, Yoshihara disclose a radio module (10) for an electrical device in Fig. 8 and 25, comprising: a radio transceiver (11) (Col 7, Line 40); an antenna (12) electrically coupled to the radio transceiver (Fig. 25); and an electromagnetic shield (60) disposed around the antenna to isolate the antenna from loading effects of components of the electrical device that are external to the radio module (Col. 15, Line 35-38) (Abstract).

Regarding claim 2, Yoshihara disclose that the radio module is adapted to be secured to a side of the electrical device (Fig. 25).

Regarding claim 3, Yoshihara disclose that a printed circuit board (14) (Col. 15, Line 46) (Fig. 25), wherein the antenna is disposed on the printed circuit board (Fig. 25).

Regarding claim 5, Yoshihara disclose that the shield (60) is disposed relative to the transceiver to isolate the transceiver from electromagnetic interference from electrical components within the electrical device (Col. 15, Line 27).

Regarding claim 7, Yoshihara disclose that the shield comprises a housing (60) disposed around the antenna (Fig. 25), the housing having a portion generally transparent to radio signals from the antenna (Col. 15, Line 40).

Regarding claim 8, Yoshihara disclose that the housing (60) is disposed around the transceiver (11) (Fig. 25).

Regarding claim 9, Yoshihara disclose that the housing comprises a conductive metal (Col. 15, line 39).

Regarding claim 12, Yoshihara disclose a radio module (40) in an electronic device in Fig. 19, comprising: a printed circuit board (14) (Fig. 19); an antenna (12) disposed on the printed circuit board (Fig. 19); and an electromagnetic shield (16H) extending from the printed circuit board around the antenna to isolate the antenna front loading effects of components of the electronic device that are external to the radio module (Col. 12, Line 1) (Col. 9, Line 61).

Regarding claim 13, Yoshihara disclose that a radio transceiver (11) disposed on the printed circuit board (14) and electrically coupled to the antenna (12) (Fig. 19).

Allowable Subject Matter

4. Claims 27-29 and 31-32 are allowed.
5. The following is a statement of reasons for the indication of allowable subject matter:
Prior art Yoshihara fails to disclose or suggest in combination with the remaining claimed

Art Unit: 2821

limitation: a method of tuning an antenna to produce a maximum output at a defined load; and a method of disposing a shield around the antenna to establish the defined load on the antenna in claim 27, claims 28-29 and 31-32 are allowed since they are dependent on claim 27.

6. Claims 4, 6, 10-11 and 14-19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuc D. Tran whose telephone number is (571) 272-1829. The examiner can normally be reached on M-F Flex hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Douglas W. Owens can be reached on (571) 272-1662. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number: 10/627,316

Page 5

Art Unit: 2821

TC

July 3, 2007

Douglas W. Owens 7/23/07

DOUGLAS W. OWENS
SUPERVISORY PATENT EXAMINER